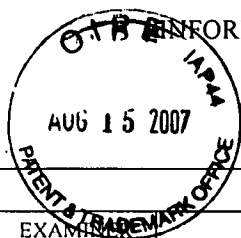


FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P31416Application No.
108588,286INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

Applicant
Yasukata DEKISHIMA et al.Filing Date
February 4, 2005Group
1632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1	S. XIE et al., "NAD ⁺ -Dependent (S)-Specific Secondary Alcohol Dehydrogenase Involved in Stereoinversion of 3-Pentyn-2-ol Catalyzed by <i>Nocardia fusca</i> AKU 2123", Biosci. Biotechnol. Biochem., Vol. 63, No. 10, pp. 1721-1729 (1999).
2	H. GROGER et al., "Preparative Asymmetric Reduction of Ketones in a Biphasic Medium with an (S)-Alcohol Dehydrogenase under in Situ-Cofactor-Recycling with a Formate Dehydrogenase", Tetrahedron, Vol. 60, No. 3, pp. 633-640 (2004).
3	W. HUMMEL et al., "Towards a Large-Scale Asymmetric Reduction Process with Isolated Enzymes: Expression of an (S)-Alcohol Dehydrogenase in <i>E. coli</i> and Studies on the Synthetic Potential of this Biocatalyst", Adv. Synth. Catal., Vol. 345, Nos. 1 and 2, pp. 153-159 (2003).
4	A. SCHMITZER et al., "Reactivity at the Interface of Chiral Amphiphilic Dendrimers. High Asymmetric Reduction by NaBH ₄ of Various Prochiral Ketones", J. Am. Chem. Soc., Vol. 123, pp. 5956-5961 (2001).
5	K. NAKAMURA et al., "Recent Developments in Asymmetric Reduction of Ketones with Biocatalysts", Tetrahedron: Asymmetry, Vol. 14, pp. 2659-2681 (2003).
6	J. CASON et al., "Branched-Chain Fatty Acids. XVI. Synthesis of the Optical Isomers of 15-Methyloctadecanoic Acid", J. Am. Chem. Soc., Vol. 72, pp. 4695-4697.
7	J. MALTHÊTE et al., "Reentrant Cholesteric Phase in Pure Compounds", Nouveau Journal de Chimie, Vol. 9, pp. 557-560 (1985).
8	W. THOMPSON et al., "3'-Tetrahydrofuranylglycine as a Novel, Unnatural Amino Acid Surrogate for Asparagine in the Design of Inhibitors of the HIV Protease", J. Am. Chem. Soc., Vol. 115, pp. 801-803 (1993).
9	T. OKANO et al., "Synthesis of Optically Active Trifluoromethylated Indolizidine Derivatives via Stereoselective Radical Cyclization", Organic Letters, Vol. 4, No. 9, pp. 1571-1573 (2002).
10	P. CONFALONE et al., "Intramolecular [3+2] Cycloaddition Routes to Carbon-Bridged Dibenzocycloheptanes and Dibenzazepines", J. Org. Chem., Vol. 48, pp. 2994-2997 (1983);
11	A. ALEXAKIS et al., "Asymmetric Conjugate Addition to Alkylidene Malonates", Tetrahedron: Asymmetry, Vol. 12, pp. 1151-1157 (2001).
12	W. OPPOLZER et al., "25. Camphorsulfonamide-Shielded, Asymmetric 1,4-Additions and Enolate Alkylations; Synthesis of a Southern Corn Rootworm Pheromone", Helvetica Chimica Acta, Vol. 68, pp. 212-215 (1985).
13	K. MORI, "Absolute Configuration of (-)-4-Methylheptan-3-ol, a Pheromone of the Smaller European Elm Bark Beetle, as Determined by the Synthesis of its (3R,4R)-(+)- and (3S,4R)-(+)-Isomers", Tetrahedron, Vol. 33, pp. 289-294 (1977).

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	14	R. HILL et al., "Stereospecificity of Enzymatic Dehydrogenation during Tiglate Biosynthesis", J. Am. Chem. Soc., Vol. 102, pp. 7344-7348 (1980).					
	15	M. ZOLLER et al., "Oligonucleotide-directed Mutagenesis using M13-derived Vectors: an Efficient and General Procedure for the Production of Point Mutations in any Fragment of DNA", Nucleic Acids Research, Vol. 10, No. 20, pp. 6487-6500 (1982).					
	16	A. DIAMOND et al., "Methods of RNA Sequence Analysis", Methods in Enzymology, Vol. 100, pp. 431-453 (1983).					
	17	T. CLACKSON et al., "General Applications of PCR to Gene Cloning and Manipulation", Molecular Cloning, PCR-A Practical Approach, IRL Press, pp. 187-214 (1991).					
	18	J. REISER et al., "Transfer and Expression of Heterologous Genes in Yeasts Other than <i>Saccharomyces cerevisiae</i> ", Advances in Biochemical Engineering and Biotechnology, Vol. 43, pp. 75-102 (1990).					
	19	M. ROMANOS et al., "Foreign Gene Expression in Yeast: a Review", Yeast, Vol. 8, pp. 423-488 (1992).					
	20	M. BAGDASARIAN et al., "Activity of the Hybrid trp-lac(tac) Promoter of <i>Escherichia coli</i> in <i>Pseudomonas putida</i> . Construction of Broad-Host-Range, Controlled-Expression Vectors", Gene, Vol. 26, pp. 273-282 (1983).					
	21	K. MIWA et al., "Construction of Novel Shuttle Vectors and a Cosmid Vector for the Glutamic Acid-Producing Bacteria <i>Brevibacterium lactofermentum</i> and <i>Corynebacterium glutamicum</i> ", Gene, Vol. 39, pp. 281-286 (1985).					
	22	A. OZAKI et al., "Functional Expression of the Genes of <i>Escherichia coli</i> in Gram-Positive <i>Corynebacterium glutamicum</i> ", Mol. Gen. Genet., Vol. 196, pp. 175-178 (1984).					
	23	W.-D. HEYER et al., "Replicating Plasmids in <i>Schizosaccharomyces pombe</i> : Improvement of Symmetric Segregation by a New Genetic Element", Molecular and Cellular Biology, Vol. 6, No. 1, pp. 80-89 (1986).					
	24	G SAUNDERS et al., "Heterologous Gene Expression in Filamentous Fungi", Trends in Biotechnology, Vol. 7, pp. 283-287 (1989).					
	25	S. MAEDA et al., "Production of Human α -Interferon in Silkworm Using a Baculovirus Vector", Nature, Vol. 315, pp. 592-594 (1985).					
	26	English language abstract of JP 2005-6552.					
	27	English language abstract of JP 2005-02 A.					
	28	English language abstract of JP 11-240894.					
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		7 0 8 3 9 6 2	08/01/06	KIMOTO et al.			
		4 7 7 5 6 9 2	10/04/88	OHNO et al.			
		5 1 3 6 0 2 0	08/04/92	MURTIASHAW			
		4 5 0 0 6 4 0	02/19/85	KATSUMATA et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	2005	- 6 5 5 2	01/13/05	JAPAN			
	2005	- 2	01/06/05	JAPAN			
	11	- 2 4 0 8 9 4	09/07/99	JAPAN			
	10	- 4 9 9 8	01/13/98	JAPAN			
	00	/ 2 4 3 5 8	05/04/00	W.I.P.O			
	62	- 2 6 5 2 7 9	11/18/87	JAPAN			
	57	- 1 8 3 7 9 9	11/12/82	JAPAN			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	29	English language abstract of JP 11-4898.
	30	English language abstract of JP 62-265279.
	31	English language abstract of JP 57-183799.

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